Printed Pages: 2 **Sub Code: BOP-474**

Paper Id: 150704 **Roll No.** | | | | | | | | | | |

B. PHARM
(SEM-VII) THEORY EXAMINATION 2018-19
PHARMACOGNOSY-IV

Time: 3 Hours ***Total Marks: 100***

Note: 1. Attempt all Sections.

SECTION A

1. Attempt *all* questions in brief. **2 x 10 = 20**

a. Define Totipotency. What are explants?

b. What do you mean by Hairy Root Culture?

c. Write the composition of Dragendorff's and Mayer's Reagent.

d. Write the biological source and use of any two alkaloidal amines.

e. What do you mean by fingerprinting?

f. Draw the chemical structure of any two constituents of Ephedra.

g. Write the Biological source and chemical constituents of any two pyridine-piperidine alkaloids.

h. Mention the physiological effects of Tobacco.

i. Define Suspension Culture.

j. Which properties of Colchicine do not allow it to be categorized under True alkaloids?

SECTION B

2. Attempt any *three* of the following: **10 x 3 = 30**

a Discuss the production and utilization of Tropane alkaloids.

b Explain the historical development of Plant Tissue Culture.

c Write the biological source, morphology, microscopy, chemical constituents and identification tests of *Nux vomica*.

d Describe role of HPTLC in standardization of Herbal drugs.

e Explain the microscopy of Belladonna and Lobelia.

SECTION C

3. Attempt any *one* part of the following: **10 x 1 = 10**

(a) Explain the herbal drug interactions.

(b) Describe the Pharmacognosy of Coca and Ipecac.

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4. Attempt any *one* part of the following: 10 x 1 = 10

(a) What are the types of plant tissue culture and their applications in pharmacy?

(b) Give the biological source, chemical structures and uses of:

i. Pilocarpine
ii. Lobeline
iii. Ephedrine
iv. Morphine

5. Attempt any *one* part of the following: 10 x 1 = 10

(a) Explain the Pharmacognosy of Indole alkaloids.

(b) Discuss the Bioactive compounds enhancing the bioavailability.

6. Attempt any *one* part of the following: 10 x 1 = 10

(a) What is the role of growth hormones in Plant Tissue Culture?

(b) Discuss the production and utilization of Solasodine.

7. Attempt any *one* part of the following: 10 x 1 = 10

(a) Explain the detailed monograph on Lobelia and Withania.

(b) Discuss the production and utilization of Podophyllotoxins

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